IN THE CLAIMS

- 1 (Previously Presented). A method comprising:
- identifying a first and a second non-zero amount of dispersion in an optical system; applying stress to an optical medium to provide a dispersion compensation to said first non-zero amount of dispersion; and
 - tuning the stress to compensate for said second amount of non-zero dispersion.
- 2 (Original). The method of claim 1 including applying stress to an optical medium including a photoelastic medium to generate a corrective dispersion of the opposite polarity of a dispersion induced in the optical medium.
- 3 (Original). The method of claim 2 including using a piezoelectric device to generate stress in an optical medium.
- 4 (Original). The method of claim 3 including controlling the amount of stress and thereby the desired dispersion compensation by controlling the voltage applied to said piezoelectric device.
- 5 (Original). The method of claim 4 including securing the photoelastic medium to said piezoelectric device and passing an optical signal through said photoelastic medium.
- 6 (Previously Presented). A method comprising:

 securing a photoelastic medium to a piezoelectric device; and
 applying a tunable voltage to the piezoelectric device to induce a tunable stress in
 said photoelastic medium appropriate to tunably correct dispersion generated in an optical system
 coupled to said photoelastic medium.
- 7 (Original). The method of claim 6 including controlling the voltage applied to said piezoelectric device to generate a dispersion of a polarity opposite to the polarity of a dispersion generated in said optical system.

- 8 (Original). The method of claim 7 including generating a corrective dispersion of substantially the same magnitude as the dispersion generated in said optical system.
 - 9 (Previously Presented). An optical system comprising:
 - an optical medium defining an optical path;
 - a photoelastic material in said optical path; and
- a device to tunably stress said photoelastic medium to tunably generate a dispersion of an appropriate polarity and magnitude to correct a dispersion induced in said optical medium.
 - 10 (Original). The system of claim 9 wherein said device is a piezoelectric actuator.
- 11 (Original). The system of claim 10 including a voltage source to control the amount of voltage applied to said piezoelectric actuator to enable tuning of the dispersion applied through said photoelastic medium.
 - 12 (Previously Presented). An optical system comprising:
 - an optical medium defining an optical path;
 - a photoelastic material in said optical path; and
- a tunable piezoelectric device coupled to said photoelastic material to tunably apply stress to tunably correct varying levels of dispersion in said medium.
- 13 (Original). The system of claim 12 wherein said piezoelectric actuator is secured to said photoelastic medium.
- 14 (Original). The system of claim 13 including a voltage source to controllably apply potential to said piezoelectric actuator.
- 15 (Original). The system of claim 14 to provide a tunable magnitude and polarity of dispersion to cancel dispersion generated along said optical path by said optical medium.